

55in 3D LED TV 55S7090-T



Owner's manual

Customer Helpline Number: 0845 459 5282

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Power cord and plug

- The power cord plug should be easily accessible. If there is lightning or storms, or if the TV is not going to be used for a while (e.g. if going away on holiday), disconnect the TV set from the mains.
- Do not place the TV, furniture, etc. on the power cord or pinch the cord.
- Handle the power cord by the plug, do not unplug the TV by pulling the power cord.
- Never touch the power cord/plug with wet hands as this could cause a short circuit or electric shock.
- Never make a knot in the power cord or tie it with other cords.
- Power cords should be placed in such a way that they are not likely to be stepped on or provide a trip hazard.
- A damaged power cord/plug can cause fire or give you an electric shock. When damaged it must be replaced, this should only be done by qualified personnel.

Moisture and Water

- **Do not** use this TV in a humid or damp place (avoid using in the bathroom or near the kitchen sink)
- Do not expose this TV to rain or water, as this may be dangerous.
- If any solid object or liquid falls into the cabinet, unplug the TV and have it checked by qualified personnel before operating it any further.

Ventilation

- The slots and openings on the TV set are intended for ventilation and to ensure reliable operation.
- To prevent overheating, these openings must not be blocked or covered in any way.

Heat sources and Flames

- Do not expose the TV to direct sunlight or other heat sources.
- The TV should not be placed near open flames or sources of intense heat such as an electric heater.
- Ensure that no open flame sources, such as lit candles, are placed on top of the TV.

Headphone Volume

 Excessive sound pressure from earphones and headphones can cause hearing loss, please take care

Wall Mounting (optional)

 To prevent injury, this TV must be securely attached to the wall in accordance with the installation instructions.

Screen

- Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green or red point.
 Please note that this does not affect the performance of your product.
- Take care not to scratch the screen with fingernails or other hard objects.

Cleaning

- Before cleaning, unplug the TV from the wall socket.
- Do not use liquid or aerosol cleaners. Only use a soft, dry cloth.

Environmental Information

This television is designed to consume less energy to help save the environment. You can not only help to save the environment but you can also save money by reducing your electricity bills thanks to the energy efficiency features of this TV. To reduce energy consumption, you should take the following steps:

You can use the Power Save Mode setting, located in the Picture menu. If you set the Power Save Mode as Eco, the TV will switch to energy-saving mode and the luminance level of TV set will be decreased to the optimum level. Note that some picture settings will be unavailable to be changed when the TV is in Power Save Mode.

If Picture Off is selected, "Screen will be off in 15 seconds." message will be displayed on the screen. Select PROCEED and press OK to continue. The screen will be off in 15 seconds.

Power Save Mode ■ Eco ■

When the TV is not in use, please switch off or disconnect the TV from the mains plug. This will also reduce energy consumption.

It is highly recommended that you activate the Power Save Mode setting to reduce your annual power consumption.

1) If the TV does not receive any input signal (e.g. from an aerial or HDMI source) for 5 minutes, the TV will go into standby. When you next switch-on, the following message will be displayed:

"Standby Cause No Signal"

Press OK to continue.

2) If the TV has been left on and not been operated for 4 hours, the TV will go into standby. When you next switch-on, the following message will be displayed.

"Standby Cause No Operation"

Press OK to continue.

Accessories included

Remote Control

Batteries: 2 x AAA Instruction Book

Side AV Connection Cable

3D Glasses x 8

TV - Features

- 3D Viewing: This product supports the viewing of 3D content from devices such as a High Definition Satellite Receiver or Blu-ray Player via the HDMI input.
- · Remote controlled colour LCD TV
- · Fully integrated digital tuner
- DVB-T2 Compliant
- HDMI Inputs are for connecting a device that has a HDMI socket
- · USB input
- · 10000 programmes
- · OSD menu system
- Scart socket for external devices (such as DVD Players, PVR, video games, etc.)
- · Stereo sound system
- Teletext
- · Headphone connection
- · Automatic programming system
- Manual tuning
- · Automatic power down after up to six hours
- · Sleep timer
- · Child lock
- · Automatic sound mute when no transmission
- · NTSC playback
- AVL (Automatic Volume Limiting)
- PLL (Frequency Search)
- PC input
- Plug&Play for Windows 98, ME, 2000, XP, Vista, Windows 7
- · Game Mode (optional)
- · Ethernet (LAN) for service
- 100Hz frequency scan

Safety Precautions and Important Information



Please read these instructions fully before installing or operating.

Preparation

Place the device on a solid even surface. For ventilation purposes, leave a free space of at least 10 cm all around the set. Do not place any objects on top of the set. Use this device in moderate climates. Operation temperature and operation humidity: 5°C up to 45°C, 85% humidity max. Note: Don't block ventilation holes.

Intended Use

This device is used to receive and display TV programmmes. The different connection options expand the reception and display sources possible (various external devices). This device is only suitable for operation in dry interiors. This appliance is intended solely for private domestic use and may not be used for industrial and commercial purposes. We exclude liability in principle, if the device is not used as intended, or unauthorized modifications have been made. To operate your TV in extreme ambient conditions may cause damage to the device.

WARNING: Never let people (including children) with reduced physical, sensory or mental capabilities or lack of experience and / or knowledge use electrical devices unsupervised.

Children may not recognize the dangers of incorrect use. The swallowing of batteries can be fatal. Keep batteries out of reach of small children. If a battery is swallowed, immediately seek medical attention. Keep the packaging films out of reach of children to prevent the risk of suffocation.

Power source

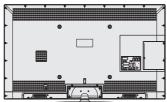
 The TV should be operated only from a 220-240 V AC, 50 Hz outlet.

Positioning the TV

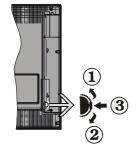
- For ventilation, please leave a clear space of at least 10cm all around the TV.
- Do not block the ventilation openings.
- Do not place the TV on sloping or unstable surfaces, the TV may tip over.
- To prevent damage to the TV, do not place any objects on top of the TV.

Viewing the TV





TV Control Buttons & Operation



- 1. Up direction
- 2. Down direction
- Programme / Volume / AV / Standby-On selection switch

Operation with the Buttons on the TV

Volume Setting

You can move the control switch upward or downward for changing the volume. To increase volume, please move the switch upward. Move the switch downward to decrease the volume. A volume level scale (slider) will be displayed on the screen.

Programme Selection

First press the control switch once to change channel. You can move the switch upward to select the next programme or move it downward to select the previous programme.

Viewing Main Menu

Menu screen cannot be displayed by using the control switch.

AV Mode

Press the control switch consecutively until the source OSD is displayed on the screen.

Operation with the Remote Control

Press the **MENU** button on your remote control to display the main menu screen. Use the " \blacktriangleleft " or " \blacktriangleright " buttons to select a menu tab and press the **OK** button to select option. Use the " \blacktriangleleft " / " \blacktriangleright " or " \blacktriangledown " / " \blacktriangle " buttons to select or set an item. Press **BACK** or **EXIT** or **MENU** button to guit a menu screen.

Input Selection

Once you have connected external systems to your TV, you can switch to different input sources. Press the "Especial" - (SOURCE)" button on your remote control consecutively to select the different inputs.

Changing Channels and Volume

You can change the channel and adjust the volume using the V+/- and P+/- buttons on the remote.

Remote Control

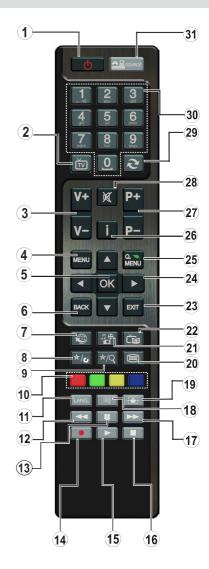
- 1. Standby / On
- 2. Channel list
- 3. Volume up-down
- 4. Menu on/off
- 5. OK / Channel list / Confirm
- 6. Return / Back
- 7. No function
- 8. My button 1 (*)
- 9. My button 2 (**)
- 10. Coloured buttons (Red, Green, Yellow, Blue)
- 11. Mono-Stereo Dual I-II / Current language
- **12.** Fast rewind (in media browser mode)
- **13.** Pause (in media browser mode) / Timeshift recording
- 14. Programme recording
- 15. Play (in media browser mode)
- 16. Stop (in media browser mode)
- 17. Fast forward (in media browser mode)
- Subtitle on-off / Subtitle (in media browser mode)
- 19. Image size
- 20. Teletext Mix
- 21. Media Browser
- 22. Electronic programme guide
- 23. Fxit
- 24. Navigation buttons
- 25. Quick menu
- 26. Info / Reveal (in TXT mode)
- 27. Programme up/down
- 28. Mute
- 29. Previous programme / Now (in EPG mode)
- 30. Numeric buttons
- 31. AV / Source



Using My button 1 (*)

Press MY BUTTON 1 for five seconds when on a desired source, channel or link, until the "MY BUTTON IS SET" message is displayed on the screen. This confirms that the selected MY BUTTON is now associated with the selected function.

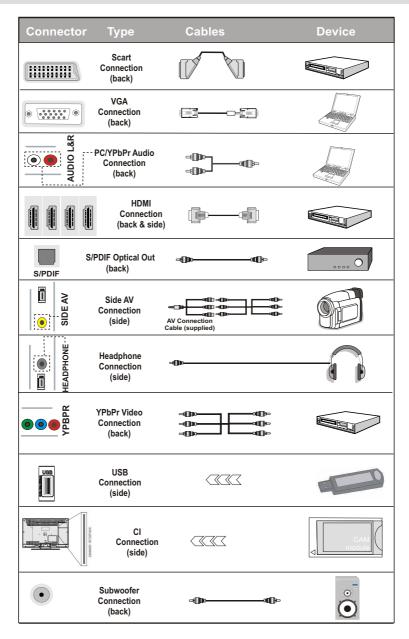
Note that if you perform first time installation, MY BUTTON 1 will return to its default function



Using My Button 2 (**)

Press MY BUTTON 2 for five seconds when on a desired source, channel or link, until the "MY BUTTON IS SET" message is displayed on the screen. This confirms that the selected MY BUTTON is now associated with the selected function.

Note that if you perform a first time installation, MY BUTTON 2 will return to its default function.



NOTE: When connecting a device via the YPbPr or Side AV input, you must use the supplied connection cables to enable connection. See the illustrations above. | To enable PC audio, you will need to use the PC/YPBPR CONNECTION cable's WHITE & RED inputs. | If an external device is connected via the SCART socket, the TV will automatically switch to AV mode. | When receiving DTV channels (Mpeg4 H.264) or while in Media Browser mode, output will not be available via the scart socket. | When using the wall melling kit (optional), we recommend that you plug all your cables into the back of the TV before mounting on the wall. | Insert or remove the CI module only when the TV is SWITCHED OFF. You should refer to the module instruction manual for details of the settings.

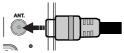
Inserting the Batteries into the Remote Control

- Lift the cover on the back of the remote upward gently.
- Install two AAA batteries. Make sure to match the + and - ends of the batteries in the battery compartment (observe the correct polarity).
- 3. Replace the cover.



Connect Power & Antenna

IMPORTANT: The TV set is designed to operate on 220-240V AC, 50 Hz socket. After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains. Plug the aerial cable into the ANT socket on your TV.



Switching On/Off

To Switch the TV On

Connect the power cord to the 220-240V AC, 50 Hz. Then the standby LED lights up.

To switch on the TV from standby mode either:

Press the "O" button, P+ / P- or a numeric button on the remote control.

Press the control switch located on the left side of the TV. The TV will then switch on

To Switch the TV Off

Press the "O" button on the remote control or press and hold the control switch on the TV, so the TV will switch to standby mode.

To power down the TV completely, unplug the power cord from the mains socket.

Note: When the TV is switched to standby mode, the standby LED can blink to indicate that features such as Standby Search, Over Air Download or Timer is active. The LED can also blink when you switch on the TV from standby mode.

First Time Installation

When turned on for the first time, the "language selection" menu appears. The message "Welcome please select your language!" is displayed and all language options are listed alphabetically.



Press the "▼" or "▲" button to highlight the required language, press OK button to select. "First Time Installation" appears. Use "◀" or "▶" button to set the required country, and press "♥" button to select Search Type. Use "◀" or "▶" to set the desired search type. Available search types are digital and analog, digital only and analog only. When set, press "♥" to select Teletext Language. Use "◀" or "▶" button to set the "Teletext Language" and select "Scan Encrypted" using "♥" or "▲" button. You can set Scan Encrypted as Yes if you want to scan coded stations.



Press **OK** button on the remote control to continue and the following message will be displayed on the screen.



You must select **YES** to search and store broadcasts. The television will search for digital terrestrial TV broadcasts.



NOTE: You can press MENU button to cancel.

After all the available stations are stored, the Channel List will be displayed on the screen. If you are satisfied with the order of channels press the **OK** button to quit the channel list and watch TV.



Media Playback via USB Input

You can connect a USB hard disk drive or USB memory stick to your TV by using the USB inputs of the TV. This feature allows you to play files stored in a USB drive. 2.5" and 3.5" inch (hdd with external power supply) external hard disk drives are supported.

IMPORTANT! You should back up your files before making any connections to the TV set in order to avoid any possible data loss. The Manufacturer will not be responsible for any file damage or data loss. It is possible that certain types of USB devices (e.g. MP3 Players) or USB hard disk drives/memory sticks may not be compatible with this TV. The TV supports FAT32 and NTFS disk formatting but recording will not be available with NTFS formatted disks. Note: While formatting a USB hard disk that has 1TB (Tera Byte) or more file capacity, you can experience problems with the formatting process.

Quickly plugging and unplugging USB devices is a very hazardous operation. This may cause physical damage to the USB player and the USB device itself. Do not pull out the USB module while playing a file.

Media Browser Menu

You can play photo, music, and movie files stored on a USB disk by connecting it to your TV. Connect a USB disk to one of the USB inputs located on the side of the TV.



The USB selection OSD will be displayed on the screen. Press the **MENU** button and select the Media Browser tab by using the Left/Right and OK buttons. The Main media browser screen will be displayed. You can display the approprite content by selecting the Video, Music or Picture tab. Follow the button indications under each on screen menu for media playback features.

Pressing the **MENU** button while in the Media Browser mode will access the Picture, Sound and Settings menu options. Pressing the **MENU** button again will exit from this screen.

You can set your Media Browser preferences by using the Settings menu.



Note: If two USB devices are connected to the TV at the same time, the first USB device connected to the TV will be named USB drive 1. Select the drive by using "\nsland" or "\textstar" buttons and press OK.

Quick Menu

The Quick Settings menu allows you to access some options quickly. This menu includes **Power Save Mode, 3D Mode, Virtual 3D, Picture Mode, Equalizer Settings. Favourites** and **Sleep Timer** options.

Press Q.MENU button on the remote control to view the quick menu. See the following chapters for details of the listed features.



Changing Image Size: Picture Formats

Programmes can be watched in different picture formats, depending on the transmission received. You can change the aspect ratio (image size) of the TV for viewing the picture in different zoom modes. Press the "→ SCREEN" button repeatedly to change the image size. You can shift the screen up or down by using "▼" or "▲" buttons while in 14:9 Zoom, Cinema or Subtitle.

Using the Channel List



The TV sorts all stored stations in the Channel List. You can edit this channel list, set favourites or set active stations to be listed by using the Channel List options. Press the MENU button to view the main menu. Select the Channel List item by using Left or Right button. Press OK to view menu contents. Select Edit Channel List to manage all stored channels. Use Up or Down and OK buttons to select Edit Channel List. Press the Up or Down button to select the channel that will be processed. Press the Left or Right button to select a function on the Channel List menu. Use P+/P- buttons to move page up or down. Press MENU button to exit.

Sorting Channel List

You can select which broadcasts will be listed in the channel list. To display specific types of broadcast, you should use the Active channel list setting. Select the Active channel list from the Channel list menu by using "▼" or "▲" button. Press the OK button to continue. You can select a network type option from the list by using "▼" or "▶" and OK buttons.

Menu Features and Functions

	Picture Menu Contents
3D Settings	Press to view 3D settings.
Mode	You can change the picture mode to suit your preference or requirements. The Picture mode can be set to one of these options: Cinema , Game , Sport , Dynamic and Natural .
Contrast	Sets the lightness and darkness values of the screen.
Brightness	Sets the brightness value for the screen.
Sharpness	Sets the sharpness value for the objects displayed on the screen.
Colour	Sets the colour value, adjusting the colors.
Power Save Mode	To set the Power Save Mode as Eco, Picture Off and Disabled. See the section, "Environmental Information" in this manual for further information on the Power Save Mode.
Backlight (optional)	This setting controls the backlight level and it can be set to Auto , Maximum , Minimum or Eco Mode . The Backlight function will be inactive if the Power Save Mode is set to On. The Backlight cannot be activated in VGA, Media Browser mode or while the picture mode is set to Game.
Noise Reduction	If the broadcast signal is weak and the picture is noisy, use the Noise Reduction setting to reduce the amount of noise. Noise Reduction can be set to one of these options: Low, Medium, High or Off .
	Advanced Settings
Dynamic Contrast	You can change the contrast rate by using the dynamic contrast function. Dynamic contrast can be set to one of these options: Low , Medium , High or Off .
Colour Temp	Sets the desired colour tone.
Picture Zoom	Sets the picture size to Auto,16:9, Subtitle,14:9, 14:9 Zoom, 4:3 or Cinema.
	Movie Sense: Press Use "Left" / "Right" to set Movie Sense Low, Med, High or Off. While Movie Sense is active, it will optimize the TV's video settings for motional images to acquire a better quality and readability.
Movie Sense	When Movie Sense option is set to Low, Med or High, Movie Sense demo option will be available. If one of these options is selected and if you press OK button, then the demo mode starts. While demo mode is active, the screen will be divided into two sections, one displaying the movie sense activity, the other displaying the normal settings for TV screen.
HDMI True Black	While watching from a HDMI source, this feature will be visible in the Picture Settings menu. You can use this feature to enhance the blackness in the picture.
Film Mode	Films are recorded at a different number of frames per second to normal television programmes. Turn this feature on when you are watching films to see the fast motion scenes clearly.
Skin Tone	Adjust the desired skin tone.
Colour Shift	Adjust the desired colour tone.
RGB Gain	Press OK button to edit RGB gain. You can configure the colour temperature values using the RGB Gain feature.
Reset	Resets the picture settings to factory default settings.
Autoposition (in PC mode)	Automatically optimizes the display. Press OK to optimize.
H Position (in PC mode)	This item shifts the image horizontally to the right hand side or left hand side of the screen.
V Position (in PC mode)	This item shifts the image vertically towards the top or bottom of the screen.

Menu Features and Functions

Advanced Settings				
Dot Clock (in PC mode)	Dot Clock adjustments correct the interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts.			
Phase (in PC mode)	Depending on the resolution and scan frequency that you input to the TV set, you may see a hazy or noisy picture on the screen. In such a case you can use this item to get a clear picture by using trial and error.			
While in VGA (PC) mode, the Picture Settings while it	some items in Picture menu will be unavailable. Instead, VGA mode settings will be added to n PC mode.			
	Sound Menu Contents			
Volume	Adjusts the volume level.			
Equalizer	In the equalizer menu, the preset can be changed to Music, Movie, Speech, Flat, Classic and User. Press the MENU button to return to the previous menu. Equalizer menu settings can be changed manually only when the Equalizer Mode is in User.			
Balance	This setting is used for emphasizing left or right speaker balance.			
Headphone	Sets the headphone volume.			
Sound Mode	You can select Mono, Stereo, Dual I or Dual II mode, only if the selected channel supports that mode.			
AVL	Automatic Volume Limiting (AVL) function sets the sound to obtain a fixed output level between programmes (For instance, volume level of advertisements tend to be louder than programmes).			
Headphone/Lineout (optional)	When you connect an external amplifier to your TV using the headphone jack, you can select this option as Lineout. If you have connected headphones to the TV, set this option as Headphone.			
Dynamic Bass	Enables or disables the Dynamic Bass.			
Surround Sound (optional)	Surround sound mode can be changed as On or Off.			
Digital Out	Sets digital audio output type.			
	Install and Retune Menu Contents			
Automatic Channel Scan (Retune)	Digital Aerial: Searches and stores aerial DVB stations.			
Manual Channel Scan	This feature can be used for direct broadcast entry.			
Analogue Fine Tune	You can use this setting for fine tuning analogue channels. This feature is not available if no analogue channels are stored.			
First Time Installation	Deletes all stored channels and settings, resets TV to factory settings and starts first time installation. You can follow the instructions in the First Time Installations section for more information on this process.			
Clear Service List	(*) This setting is visible only when the Country option is set to Denmark, Sweden, Norway or Finland. Use this setting to clear channels stored.			

Menu Features and Functions

	Settings Menu Contents
Conditional Access	Controls conditional access modules when available.
Language	Configures language settings.
Parental	Configures parental settings.
Timers	Sets timers for selected programmes. (USB Record)
Recording Configuration	Displays the recording configuration menu.
Date/Time	Sets date and time.
Sources	Enables or disables selected source options.
Network Settings	Displays network settings.
0	ther Settings: Displays other setting options of the TV set:
Menu Timeout	Changes timeout duration for menu screens.
Scan Encrypted	When this setting is on, the search process will locate encrypted channels as well. If it is set as Off, encrypted channels will not be located in automatic or manual searches.
Blue Background	Activates or deactivates the blue background system when the signal is weak or absent.
Software Upgrade	To ensure that your TV always has the most up to date firmware. Please ensure that the TV is set to standby mode with an aerial connected to pick up the over air download.
Application Version	Displays application version.
Hard of Hearing	Enables any special feature sent from the broadcaster.
Audio Description	Audio description refers to an additional narration track for blind and visually impaired viewers of visual media, including television and movies. You can use this feature, only if the broadcaster supports the additional narration track.
Auto TV Off	You can set the timeout value of the auto off feature. After the timeout value is reached and the TV has not been operated for a selected time, the TV will go into standby mode.
Standby Search (optional)	If you change Standby Search to Off, this function will be unavailable. To use Standby search please make sure that you select Standby Search as On. If the Standby Search is set to On, when the TV is in standby mode, available broadcasts will be searched. If the TV locates any new or missing broadcasts, a menu screen will be displayed, asking you whether or not to execute these changes. The Channel list will be updated and changed after this process. Please activate the Standby Search setting in order to enable your TV to automatically update the broadcast frequency of the broadcaster, broadcast definition and other similar changes.
Power Up Mode	Standby: The TV powers up into Standby mode when the TV is plugged into the mains. Last State: The TV powers up into On mode when the TV is plugged into the mains and the last channel/source is selected.

Electronic Programme Guide (EPG)

Some, but not all channels send information about the current and next programmes. Press the "Color - EPG" button to view the EPG menu.



Up/Down/Left/Right: Navigate EPG.

OK: Displays programme options.

INF(i): Displays, in detail, information on the

programme selected.

GREEN: Switches to List Schedule EPG.

YELLOW: Switches to Timeline Schedule EPG.

BLUE: displays filtering options.

(RECORD): the TV will start to record the selected programme. You can press again to stop the recording.

IMPORTANT: To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable the recording feature. Otherwise, the recording feature will not be available.

Note: Switching to a different broadcast or source is not available during a recording.

Programme Options

In the EPG menu, press the **OK** button to enter the **Event Options** menu.

Select Channel

In the EPG menu, using this option, you can switch to the selected channel.

Record / Delete Record Timer

After you have selected a programme in the EPG menu, press the **OK** button and the **Options** screen will be displayed. Select the "**Record**" option and press the **OK** button. After this operation, a recording will be sheduled for the selected programme.

To cancel an already set recording, highlight that programme and press the **OK** button and select the option "**Delete Rec. Timer**". The recording will be cancelled.

Set Timer / Delete Timer

After you have selected a programme in the EPG menu, press the **OK** button and the **Options** screen will be displayed. Select the "**Set Timer on Event**" option and press the **OK** button. You can set a timer for future programmes. To cancel an already set timer, highlight that programme and press the **OK** button. Then select "**Delete Timer**" option. The timer will be cancelled.

Note: It is not possible to record two channels at the same time

Recording a Programme

IMPORTANT: When using a new USB hard disk drive, it is recommended that you first format the disk using your TV's "Format Disk" option.

To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable the recording feature.

To use the recording function, you need to connect a USB disk or an external hard disk drive to the TV and the connected USB disk should have at least 1GB capacity and should have 2.0 speed compatibility. If the connected USB device does not support 2.0 speed, an error message will be displayed.

Note: Recorded programmes are saved into the connected USB disk. If desired, you can store/copy recordings onto a computer; however, these files will not be available to be played on a computer. You can play the recordings only via your TV.

Note: Lip Sync delay may occur during the timeshifting. Radio recording is not supported. The TV can record programmes up to ten hours.

Recorded programmes are split into 4GB partitions.

If the writing speed of the connected USB disk is not sufficient, the recording may fail and the timeshifting feature may not be available.

Recordings of HD programmes can occupy more space on the USB disk compared to SD programmes. For this reason it is recommended to use a USB hard disk drive to record HD programmes.

Do not unplug the USB/HDD during a recording. This may harm the connected USB/HDD.

Multipartiton support is available. A maximum of two different partitions are supported. If the disk has more than two partitions, a crash may occur. The first partition of the USB disk is used for PVR ready features. It also must be formatted as the primary partition to be used for the PVR ready features.

Some stream packets may not be recorded because of signal problems, so sometimes the video may freeze during playback.

Record, Play, Pause, Display (for PlayListDialog) keys can not be used when teletext is ON. If a recording starts from the timer when teletext is ON, teletext is automatically turned off. Also teletext usage is disabled when there is an ongoing recording or playback.

Timeshift Recording

Press ■ (PAUSE) button while watching a broadcast to activate timeshifting mode. In timeshifting mode, the programme is paused and simultaneously recorded to the connected USB disk. Press ► (PLAY) button again to resume the paused programme from where you stopped. You will see the timeshift gap between the real and the timeshifted programme in the info bar.

Instant Recording

Press (RECORD) button to start recording an event instantly while watching a programme. You can press (RECORD) button on the remote control again to record the next event on the EPG. In this case, the OSD will display the programmed events for recording. Press (STOP) button to cancel instant recording.

Note: You can not switch broadcasts or view the Media Browser during the recording mode.

Watching Recorded Programmes

In the main menu, use "◀" or "▶" buttons to select the Media Browser. Highlight the Recordings Library using "◀" or "▶" button and press the OK button to enter the Recordings Library. Select a recorded item from the list (if previously recorded) by using "▼" or "▲" buttons. Press the OK button to view the Play Options. Select an option by using "▼" or "▲" or OK buttons.



Available playback options:

- Play from start: Plays the recording from the beginning.
- Resume: Resumes Playback from the point at which you stopped playback previously.
- · Play from offset: Specifies a playing point.

Note: Viewing main menu and menu items will not be available during the playback.

Press the (STOP) button to stop a playback and return to the Recordings Library.

Slow Forward

If you press **II** (PAUSE) button while watching recorded programmes, the slow forward feature will be available. You can use **▶** button to slow forward. Pressing **▶** button consecutively will change slow forwarding speed.

Recordings Library

To view the list of recordings, select "Recordings Library" and press the OK button. The Recordings Library will then be displayed with available recordings. All the recordings are kept in a list in the recordings library.

RED button (Delete): Erases the selected recording.

GREEN button (Edit): Makes changes on the selected recording.

BLUE button (Sort): Changes the order of the recordings. You can select from a wide range of sorting options.

OK button: Activates the play options menu:

: Resume Playback.

INFO (Details): Displays the programme information details.

Recording Configuration

Select the Recording Configuration item in the Settings menu to configure the recording settings.

Format Disk: You can use the Format Disk feature for formatting the connected USB disk. IMPORTANT: Note that ALL the data stored on the USB disk will be lost and the disk format will be converted to FAT32 if you activate this feature. If your USB disk malfunctions, you can try formatting the USB disk. In most cases formatting the USB disk will restore normal operation; however, ALL the data stored on the USB disk will be lost in such a case.

Note: If "USB is too slow" message is displayed on the screen while starting a recording, try restarting the recording. If you still get the same error, it is possible that your USB disk does not meet the speed requirements. Try connecting another USB disk.

A Product Safety

- Do not drop objects on the product or knock the product forcefully. This may result in an electric shock or fire.
- Do not use your product near a humidifier or kitchen counter. This may result in an electric shock or fire.
- Do not disassemble, repair or modify the product or its parts. Doing so may result in damage to the product or a malfunction.

- Do not spray cleaner directly onto the surface of the product. This may result in discoloration and cracks and may cause the screen display to peel off.
- Do not let water come into contact with the product when cleaning it. Ensure that water does not enter the product. This may result in an electric shock or fire.
- Since the surface of the product is easily scratched, make sure you clean the product with a soft cloth. As the product may be scratched if there is any foreign material on the cloth, make sure to shake off any dust before using it.
- Do not scratch the surface of the display screen with a sharp tool or clean it using chemicals. This may degrade the screen quality.
- · Do not apply force to the display screen.
- · Do not drop or bend the product.

A Health Warning! - 3D Mode

Read and understand the following safety precautions carefully for your safety before using the 3D Mode.

- You may experience discomfort, headaches or dizziness while watching 3D images. If you experience such symptoms, you should remove 3D glasses and stop watching 3D mode.
- Take regular breaks while watching 3D images. The length and frequency of breaks may change from person to person. You must decide what works best for you. If you experience discomfort such as eye strain or nausea while watching 3D images for a long time, remove the 3D glasses, stop watching 3D mode and rest. You should consult a doctor if you believe it is necessary.
- It is recommended that an adult should check on children, including teenagers because they may be more sensitive to the effects of watching 3D.
- If the children experience symptoms such as dizziness, headaches or eye strain, you should have the children stop watching 3D TV and you should have the children rest.
- If you experience headaches, fatigue, or dizziness, while viewing 3D images through the 3D glasses stop watching immediately.

Photosensitive Seizure Warning

- If you or a member of your family has a history of epilepsy or seizure, please consult with your doctor before watching 3D TV. It is possible that some viewers may experience a seizure or epilepsy when exposed to certain conditions, including flashing lights or images in TV or video games.
- Sometimes certain symptoms can occur in unspecified conditions even if you do not have any

previous history. In such a case, if you experience any of the following symptoms, immediately stop watching the 3D TV and consult a doctor: Altered vision, visual or facial instability, such as eye or muscle twitching, dizziness or light-headedness, visual transition or unconscious action, convulsion, loss of conscience, confusion or disorientation, loss of directional sense, cramps, or nausea.

Using the 3D Mode

- If you experience difficulty viewing 3D images with the 3D glasses, you may have some problems with your eyesight.
- When watching 3D images, you should leave a distance of at least twice the screen width between you and the screen, and you should keep the screen at eye level.
- If you watch the 3D imaging too closely or for a long period of time, it is possible that it may harm your eyesight. Watching the TV or playing video games that incorporate 3D imaging with the 3D glasses for a long period of time can cause headaches or fatigue.
- Stop watching the TV and take a rest. Pregnant woman, senior citizen, persons with heart problems or persons who experience frequent drowsiness should refrain from watching 3D. Some 3D imaging may cause you to duck or dodge the image displayed in the video. Therefore, it is best if you do not watch 3D TV near fragile objects or near any objects that can be knocked over easily. Please prevent children under the age of 5 from watching 3D. It may affect their vision development.
- Do not use the 3D Glasses for other purposes such as sunglasses or general eyeglasses.
- When watching the TV, ensure that your eyes are on the same level with the screen and do not sit too closely to the TV. Do not watch the 3D TV when you are tired or sick. Avoid watching the 3D TV for a long period of time.
- Wear the 3D glasses only for viewing 3D imaging on the TV. Do not use for any other purposes.
- Some viewers may feel disoriented afler watching 3D. Therefore do not wear 3D Glasses while you are moving around. Using the 3D Glasses while moving may lead to injuries due to running into objects, and falling.
- · Use only the supplied 3D glasses.
- If you experience screen flickering when watching 3D images in poor light conditions, you should turn the lamp off or dim the light.
- You must use 3D glasses parallel to your TV. The picture may not be visible or may look dark if you do not stay within the viewing angle.

- Use 3D glasses only when watching 3D images at the correct angle. Remove the glasses in any other case. The picture may not be visible or may be dark if you look down or if you lie on your side while watching 3D images using 3D glasses.
- Flickering may be generated by the 3D glasses (60 Hz) when watching the 3D screen when a magnetic fluorescent lamp (50 Hz) is on.
- The 3D picture may not be visible or become distorted when watching under intense light conditions.
- Connect a 3D compatible player via a "high speed" HDMI cable (required to watch 3D content). Refer to the players manual for settings.
- Press the SOURCE button and select the connected input.
- You should select a suitable 3D Mode before viewing.
- To view 3D contents or programmes in 3D mode you must wear the supplied 3D Glasses.

Setting up 3D Mode for PS3

Ensure the PS3 has the latest firmware installed. Have both the TV and console off. Connect the TV to the PS3 with a "high speed" HDMI cable.

Turn on the TV and wait for it to power up, then turn on the console (Hold power button until you hear a beep)

The PS3 will then identify the 3DTV and ask for resolution information and screen size.

Once selected the PS3 will then have the ability to play both games and Blu-ray 3D discs.

Setting up 3D Mode for Sky HD

IMPORTANT: Please ensure you register to activate Sky 3D.

Connect the TV to Sky HD box with a "high speed" HDMI cable.

Press the MENU button and select the Picture icon using the "◀" or "▶" buttons and press OK.

Use "▼" or "▲" to select the 3D side by side setting and press OK to view.

Once selected the 3D channel can now be watched.



Note: You will need to unselect this mode when going back to 2D channels.

3D Settings

Press **MENU** button and select the Picture icon by using "\(\bigsir \) or "\(\bigsir \)" buttons and press OK.

Use "▼" or "▲" to select 3D settings and press OK to view.

You can customize the 3D mode settings to provide the best viewing experience. Select one of these modes to experience 3D image viewing:

Auto: Automatically switches to 3D mode if 3D information is detected from a HDMI source

Side by Side: Displays 3D content which is originally in a form of side by side.

Top bottom: Displays 3D content which is originally in a form of top and bottom.

Off: 3D function mode is turned off.

2D Only

If content is 3D but you want to watch it in 2D, you can switch to 2D only mode. There are 2 options (LEFT and RIGHT) to select which side of the content you want to watch in 2D.



NOTE: This item is available when TV is in 3D mode.

Virtual 3D

Conversion from 2D to 3D. There are 3 different levels of depth: Low – Medium – High.

NOTE: This item is available when TV is not in 3D mode. Once Virtual 3D is enabled, it remains so when the channel is changed. However, it will be disabled automatically if you switch to a different source.

Left/Right Swap

You can use this setting to shift the phase of the 3D left/right broadcast.

3D Depth Sense (optional)

This setting enables the control of 3D depth.

NOTE: If you select 3D modes, wear the supplied 3D glasses when this message is displayed on the screen:



3D Viewing Information

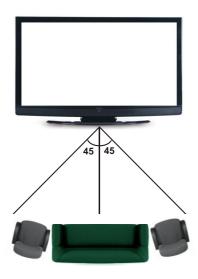
Your 3D Viewing experience can be affected by the location of the viewer and the TV set. To maximise your enjoyment we recommend you follow the guidelines below:

Viewing Distance

Size (inch)	22	26	32	37	40
Viewing distance (m)	1,30	1,50	1,90	2,20	2,40

Size (inch)	42	46	47	55
Viewing distance (m)	2,50	2,75	2,80	3,25

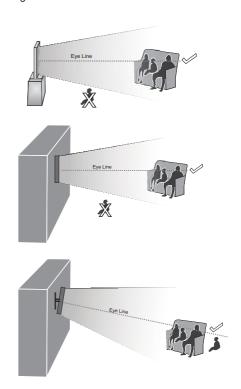
Horizontal Viewing Angle



Note: When using headphones, you should adjust the volume so as to avoid excessive levels, since this may cause hearing damage.

Vertical Viewing Angle

It is recommended to place the TV at the correct seated eye height of the viewer. If the TV must be placed higher or lower it should be tilted accordingly using suitable stand or wall mount.



3D Viewing Information

	HDMI	MBV	MBP
1080p@24 FP	Supported	Not Supported	Not Supported
720p@50 FP	Supported	Not Supported	Not Supported
720p@60 FP	Supported	Not Supported	Not Supported
1080p FC	SBS, TB	SBS, TB	SBS, TB
720p FC	SBS, TB	SBS, TB	SBS, TB
1080i FC	SBS	SBS	SBS
OTHER	Not Supported	Not Supported	(*)

	DTV	ATV	OTHER
1080p@24 FP	Not Supported	Not Supported	Not Supported
720p@50 FP	Not Supported	Not Supported	Not Supported
720p@60 FP	Not Supported	Not Supported	Not Supported
1080p FC	SBS, TB	Not Supported	SBS, TB
720p FC	SBS, TB	Not Supported	SBS, TB
1080i FC	SBS	Not Supported	SBS
OTHER	(*)	Not Supported	Not Supported

Please note that if you apply 720p FC TB input; the picture will be scaled smaller than the original size in the middle of the screen.

SBS: Side By Side TB: Top Bottom

MBP: Media Browser Picture MBV: Media Browser Video FC: Frame Compatible FP: Frame Pack

in MBP: Supported only when, the image's height is multiples of 2 and the image's width is multiples of 16 and if the image width is equal to the panel width or wider.

in DTV: Supported only when, the image's height is between 1700 and 1900 and the image's width is equal to 1280 or 720.

(*): Not supported if the image provides 1080i resolution.

3D Glasses

Frame Material: ABS Frame Type: Foldable Weights: 21g Polarization Film Type: Circular

Light Penetration Rate: 40%
Polarization Efficiency: 99.9%
Lens Thickness: 0.28mm
Lens Treatment: Hard-coated

Digital Teletext

Press the "
button. The digital teletext information appears. Operate it with the coloured buttons, cursor buttons and the **OK** button.

The operation method may differ depending on the contents of the digital teletext. Follow the instructions displayed on digital teletext screen.

When the "=" button is pressed again, the TV returns to television broadcast.

Software Upgrade

Your TV is capable of finding and updating automatically via the Aerial signal.

3.00am search and upgrade mode

While the TV is connected to an aerial signal. If **Automatic scanning** in the **Upgrade Options** menu is enabled, the TV wakes up at 03:00 and searches broadcast channels for new software upgrades. If new software is found and downloaded successfully, the next time the TV powers up , it will have the new software version.

Note. If the TV fails to come on after the upgrade unplug the TV for 2 minutes and plug in again.

Troubleshooting & Tips

Image persistence - ghosting

Please note that ghosting may occur while displaying a persistent image (still or paused image). LCD/LED TVs' image persistence may disappear after a short time. Try turning off the TV for a while. To avoid this, do not leave the screen in still picture mode for extended periods of time.

No power

If your TV has no power, please check the power cord plug is connected to the mains power socket.

Poor picture

- 1. Have you selected the correct TV system?
- 2. Is your TV or house aerial located too close to a non-earthed audio equipment or neon lights, etc.?
- 3. Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial. Is the picture or teletext unrecognisable?
- **4.** Check if you have entered the correct channel frequency if you have done manual tuning.
- 5. Please retune the channels.
- 6. The picture quality may degrade when two devices are connected to the TV at the same time. In such a case, disconnect one of the devices.

No picture

- No Picture means that your TV is not receiving a transmission. Have you selected the correct button on the remote control? Try once more. Also make sure the correct input source has been selected.
- 2. Is the aerial connected properly?

Licence Notifications

Manufactured under license from Dolby Laboratories.

TRADEMARK ACKNOWLEDGMENT

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Appendix A: PC Input Typical Display Modes

The following table is an illustration of some of the typical video display modes. Your TV supports up to 1920x1200.

Index	Resolution	Frequency
1	640x350	85Hz
2	640x400	70Hz
3	640x400	85Hz
4	640x480	60Hz
5	640x480	66Hz
6	640x480	72Hz
7	640x480	75Hz
8	640x480	85Hz
9	800x600	56Hz
10	800x600	60Hz
11	800x600	70Hz
12	800x600	72Hz
13	800x600	75Hz
14	800x600	85Hz
15	832x624	75Hz
16	1024x768	60Hz
17	1024x768	66Hz
18	1024x768	70Hz
19	1024x768	72Hz
20	1024x768	75Hz
21	1024x768	85Hz
22	1152x864	60Hz
23	1152x864	70Hz
24	1152x864	75Hz
25	1152x864	85Hz
26	1152x870	75Hz
27	1280x768	60Hz
28	1280x768	75Hz
29	1280x768	85Hz
30	1280x960	60Hz
31	1280x960	75Hz
32	1280x960	85Hz
33	1280x1024	60Hz
34	1280x1024	75Hz
35	1280x1024	85Hz
36	1360x768	60Hz
37	1400x1050	60Hz
38	1400x1050	75Hz
39	1400x1050	85Hz
40	1440x900	60Hz
41	1440x900	75Hz
42	1600x1200	60Hz
43	1680x1050	60Hz
44	1920x1080	60Hz
45	1920x1200	60Hz

Appendix B: AV and HDMI Signal Compatibility (Input Signal Types)

Source	Supported Signals		Available
	PAL		0
EXT-1	NTSC 60		0
(SCART1)	RGB	50/60	0
	SEC	CAM	0
	P	AL	0
EXT-1 (SCART2)	NTS	C 60	0
(== ,	SEC	CAM	0
	PAL	50/60	0
Side AV	NTS	C 60	0
	SEC	CAM	0
	4801	60Hz	0
	480P	60Hz	0
	5761	50Hz	0
YPbPr	576P	50Hz	0
11 01 1	720P	50Hz	0
	720P	60Hz	0
	10801	50Hz	0
	10801	60Hz	0
	4801	60Hz	0
	480P	60Hz	0
	5761	50Hz	0
	576P	50Hz	0
HDMI1	720P	50Hz	0
HDMI2	720P	60Hz	0
HDMI3	10801	50Hz	0
HDMI4	10801	60Hz	0
	1080P	24Hz 25Hz 30Hz 50Hz 60Hz	0

(X: Not Available, O: Available)

In some cases a signal on the TV may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc.). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

Appendix C: Supported File Formats for USB Media Browser

Media	Extension	Format		Notes
		Video	Audio	
Movie	dat, mpg, mpeg	Mpeg1,2	MPEG1/2 Layer 1/2/3, AAC/HEAAC, AC3/EAC3, LPCM/ADPCM	1080P@ 30fps 50Mbit/sec
	dat, mpg, mpeg	MPEG2 ,H.264, VC1, AVS, MVC	MPEG1/2 Layer 1/2/3, AAC/HEAAC, AC3/EAC3, LPCM/ADPCM	H.264:1080Px2@25fps 1080P@ 50fps MVC: 1080P@ 24fps Other: 1080P@ 30fps" 50Mbit/sec
	.vob	MPEG2	MPEG1/2 Layer 1/2/3, AC3, LPCM	1080P@ 30fps 50Mbit/sec
	.mkv	MPEG1,2,4, XviD, H.264,	MPEG1/2 Layer 1/2/3, AAC/HEAAC, AC3/EAC3, LPCM,OGG	H264:1080Px2@25fps 1080P@50fps Other:1080P@30fps50Mbit/ sec
	.mp4 .mov	VC1,WMV3, Motion JPEG	MPEG1/2 Layer 3, AAC/HEAAC, AC3/EAC3, LPCM/ADPCM	H.264: 1080Px2@25fps 1080P@ 50fps Other: 1080P@ 30fps 50Mbit/sec
	RMVB, RM	rv30, rv40	LBR(cook), AAC/HEAAC	1080P@ 30fps 50Mbit/sec
	avi	MPEG1,2,4 Xvid H.264, VC1,WMV3, Sorenson H.263 Motion JPEG	MPEG1/2 Layer 1/2/3, AAC/HEAAC, AC3/EAC3, LPCM/ADPCM, WMA	H.264: 1080Px2@25fps 1080P@ 50fps Other: 1080P@ 30fps" 50Mbit/ sec
	flv	H.264, Sorenson H.263	MPEG1/2 Layer 3, AAC/HEAAC, LPCM/ADPCM	H.264: 1080Px2@25fps 1080P@ 50fps Other: 1080P@ 30fps" 50Mbit/sec
	3gp,3g2	MPEG4, H.264		1920x1080 @ 30P 20Mbit/sec
	asf, wmv	MPEG2,4, XviD, H.264, VC1,WMV3	MPEG1/2 Layer 1/2/3, AAC/HEAAC, AC3/EAC3, LPCM, WMA	1080P@ 30fps 50Mbit/sec
Music	.mp3		MPEG1 Layer 1/2/3 (MP3)	
	OGG		OGG	
	.wav	-	LPCM	
	WMA/ASF		WMA, WMA Pro	
	.m4a/ .aac		AAC, HEAAC	
Photo	.jpg .jpeg	Baseline JPEG		max WxH = 14592x12288
	.png	Progressive JPEG		Up to 8 MegaByte
	.bmp	non-interlace		
Subtitle	.png	interlace		
Subtitle	sub	-	- -	
	JIL			

Appendix D: Supported DVI Resolutions

When connecting devices to your TV's connectors using DVI converter cable (not supplied), you can refer to the following resolution information.

	24Hz	25Hz	30Hz	50Hz	60Hz
480i					☑
480p					☑
576i				Ø	
576p				☑	
720p				Ø	☑
1080i				Ø	☑
1080p	☑	Ø	Ø	Ø	☑

SKY Remote Control Code

The Sky Code is 065:

- 1 Turn your TV on.
- 2 Press TV on your Sky remote control handset.
- 3 Hold down **SELECT** and the **RED** button together for about two seconds, until the red light on the Sky remote control blinks twice.
- 4 Key in 065. The light on the Sky remote control should blink twice.
- 5 Press the **STANDBY** button on your Sky remote control. If your TV switches off, press **SELECT**. The light on the Sky remote control blinks twice. Now try the other functions.

Specifications

RF AERIAL INPUT 75 Ohm (unbalanced)

OPERATING VOLTAGE 220-240V AC, 50 Hz.

AUDIO OUTPUT POWER (W_{PMS}) (10% THD) 2 x 12

POWER CONSUMPTION (W)

165 W (max)

PANEL

16:9 display, 55" Screen Size

DxLxH (With foot): 221 x 1282 x 791

Weight (Kg): 25

DxLxH (Without foot): 40 x 1282 x 753

Weight (Kg): 20.40

Transmission Standards:

VHF (BAND I/III) UHF (BAND U) HYPERBAND DVB-T, MPEG2,DVB-T, MPEG4 HD, DVB-T2

